	Incident /163
APICARO.	L-1M27 OF 170-6 21 July 1943
A). 110.	Van Buvs, Galif.
TOPICALLY III.	SOURCE Ord. Reserve Officer
DATE OF REPORT	DATE IN TO ATLC
Title of the Bound tending to wherice	orange color at duak this and a
CITAL Of weather balloon at 2,000	Potitude
COURSE E to W	LERGINI OF THE OBSERVED About an hour
NO. THE GROUP 1	TYPE OF OBSERVATION Ground Traveled a vertical arc of MANEUVERS about 25° or more.
FILE 1	

Therary ATIC Form 329 (2 Jan 52)

Ltr, ERH, to CG, AMC, Subj: Analysis of Proj. "Grudge" Reported Incidents

- "Checklist-Unidentified Flying Objects" produce insignificant and unreliable data from an observer. These are: 9. Distance of object from
 observer; 11. Altitude: 12. Speed; and 16. Size. For any unfamiliar
 object beyond the focal range of the human eyes (about 60 ft.), these
 four factors are mutually inter-dependent and therefore indeterminant
 unless at least one of them (and some observed angles) are known.
 Directly asking an observer about these indeterminants not only gets
 unreliable data but induces wild answers because the observer is led
 into making a statement about quantities for which he has no basis in
 fact. He will unconsciously assume knowledge of some one of these
 factors and so give incorrect information on all. That people (many
 of whom should know better) will arbitrarily give answers to two significant figures on these questions, which really cannot be answered at
 all, is proof of the unreliability of their information.
- 5. It is suggested that these four items on the questionnaire be replaced by questions which will yield answers possible of being independent facts in terms of the observer's best estimates of angles and time. From such data given by observers of the same object at two different places, a reliable calculated estimate could be made of the object's size, altitude, speed and path. These data should include:
- a. An estimate of the angular size of the object. A quick but reasonable estimate can be made by comparing the angle subtended by the index finger held at arms length. The finger (7/8" wide) of an average man held at 26" to 30" (arms length) will subtend an angle of approximately two degrees. In this way angular size from about 1/2" to about 8° can be estimated.
- b. The range of the object's flight in terms of the angle subtended by the observed path. If the object moves in a reasonably straight course it is important to observe the position at the beginning and the end of its course. After the flight has been completed a person can extend his arms toward the two points and also at 90° or 180° and by comparison estimate the angular extent of the flight. It is also important that information which will determine those directions relative to a compass point be given. If the angular course is associated with objects on the horizon, with roads, with the sur (if the time of day is also noted) or by the north star, the orientation can be rechecked at any later time.
- ocurse. This is probably the most difficult estimate to make. Timing with a watch is the most satisfactory, but an observer is seldom pre-

Ltr, ERH, to CG, AMC, Subj: Analysis of Proj. "Grudge" Reported Incidents

"one flying saucer; two flying saucers, three flying saucers" ---etc.

At a normal speaking speed. On the other hand it is not easy to count seconds and at the same time make all the other desirable observations. It must be remembered that when a person is excited his estimates of time are apt to be rather inaccurate.

- d. Estimation of the elevation angle of the object. Almost all persons will overestimate elevation angles. This tendency can be reduced by the observer extending one arm vertically and the other horizontally to observe a 90° angle. The vertical arm can then be lowered to point to the observed object. In this way the observed angle can be compared with a 90° angle and a more accurate estimate obtained.
- 6. It is realized that it might not be possible for an observer to perform the operations suggested in the preceding paragraph, during the period the object is sighted. If he would immediately reconsider what he saw and then estimate such measurements, he should be able to give quantitative answers accurate to at least 25%. In interrogating observers, they should also be asked to reconstruct their observations and then estimate these same factors. It is suggested that instructions for making such quick and estimated observations be given to weather observers, control tower operators, civil police, forest and fire rangers, and other such people who might have good chance of seeing unidentified flying objects. If any information concerning unidentified flying objects is given to the public, instructions for reliable observation should be included.
- 7. This organizat on will be pleased to be of any further assistance required in connection with this matter.

FOR THE COMMANDING OFFICER:

3 Incls

1. List of balloons launched (in trip)

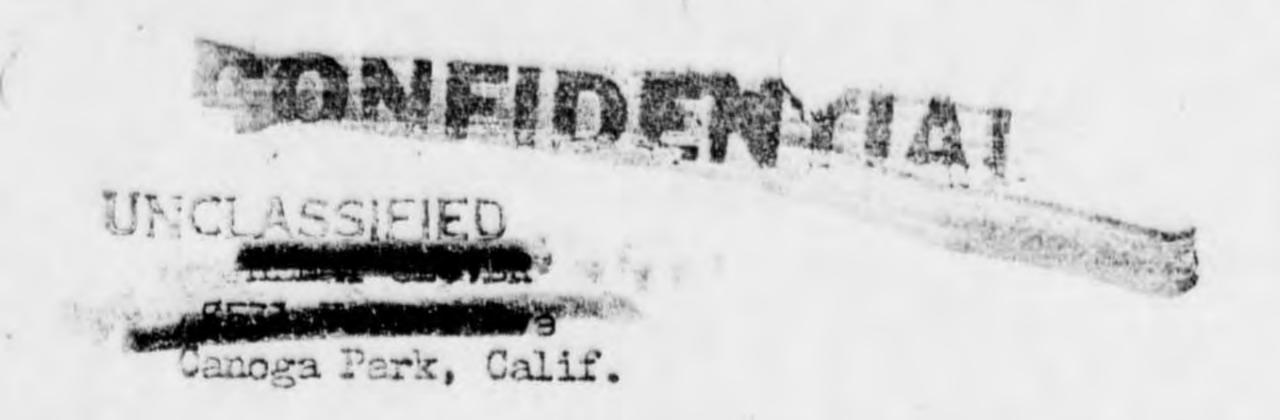
2. 8" I 10" photo print

j. 4" 15" photo print of plastic balloon

/s/ a. C. Trakowski, Jr.
A. C. TRAKOWSKI, JR.
Captain, USAF
Director, Base Directorate
for Geophysical Research

- 1. Date 21 July 48
- 2. Time hour before dark
- 3. Location Van Muys, Calif
- 4. Name of observer Capt Harman & wife (Ord-Res)
- 5. Occupation of observer Ordnance Reserve Officer
- 6. Address of observer (Ave., Canoga Park, Calif
- 7. Place of observation Van Nuys, Calif.
- 8. Number of objects 1
- 9. Distance of object from observer 2000xit overhead
- 10. Time in sight With about an hour
- 11. Altitude great height
- 12. Speed N/3
- 13. Direction of flight toward the sum from the Bast or Mxtaxx
- 14. Tactics traveled a vertical arc of about 25° or core
- 15. Sound 11/3
- 16. Size of weather balloon at 2000 ft
- 17. Color bluish luminescence like fluorescent lamp which gradually changed to orange color at dusk
- 18. Shape round tending to spherical
- 19. Odor detected 3/8
- 20. Apparent construction I/S
- 21. Exhaust trails M/S
- 22. Weather conditions CATU ground temperature 70-75°
- 23. Effect on clouds 1/5
- 24. Skatches or photographs None
- 25. Manner of disappearance snapped off like a lamp when you throw switch
- 26. Remarks: (Over)

Object appeared round and probably spherical. At first looked similar to weather balloon at about 2000 ft but there was no characteristic bobbing. The wind was blowing on the ground with fair strength and gusty yet the object was quite steady. In the time it was under observation (about an hour) it traveled thru a vertical arc of about 25° or more. After watching the object for a while the observer concluded that whatever it was the thing was at great height but not a star. It had a bluish luminescence like a fluorescent lamp and as the sun set the color gradually changed to an orange color at dusk and finally snapped off like a lamp when the switch is thrown. The outline was clear and sharp and symetrical (no fuzziness or blurring), the air clear with visibility unlimited. Direction of travel from East directly toward the sun.



G-2 Air Materiel Command Wright Field, Ohio

13 Aug 48

Gentlemen:

REPORT OF STRANGE OBJECT IN FLIGHT

On the evening of 22 July 48 my wife and I were having dinner in the patio of an open air market in Van Muys. California. We arrived there about an hour before dark. Cur attention was attracted by other patrons to a strange object in the sky almost directly overhead.

Description. It appeared to be round and probably spherical. At first it appeared to be a weather balloon at about 2000 feet but there was none of the characteristic bobbing. The wind was blowing on the ground in fair strength and gusty yet the object was quite steady. After witching it a while I concluded that whatever it was was at great height but not a star. It had a bluish luminescence like a fluorescent lamp and as the sun set the color gradually changed to an orange color at dusk and finally snapped off like a lamp when you throw the switch (at which moment I was looking right at it). In about an bour that I had been observing it, the object had traveled through a vertical arc of about 25 degrees or more. The outline of the object was clear and sharp and symetrical (no fuzziness or bluring); the air was very clear with visibility unlimited; ground temperature about 70-75 degrees dropping to about 50 degrees an hour after dark (two hour time lapse); direction of travel was from East directly toward the sun.

Very truly yours,

Capt. Ord-Res

DOWNGRADED AT 3 YEAR INTERVALS DECLASSIFIED AFTER 12 YEARS.

DOD DIR 5200.10

UNCLASSIFIED





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HEADQUARTERS

AIR MATERIEL COMMAND

WRIGHT-PATTERSON AIR FORCE BASE

MCIAKO-3/HWS/aw

8 September 1948

MCIAXO-3

COMMUNICATION AND EN-

VELOPE TO COMMANDING

GENERAL, AIR MATERIEL

COMMAND, ATTENTION FOL-

SUBJECT:

Project "SIGN"

Chief

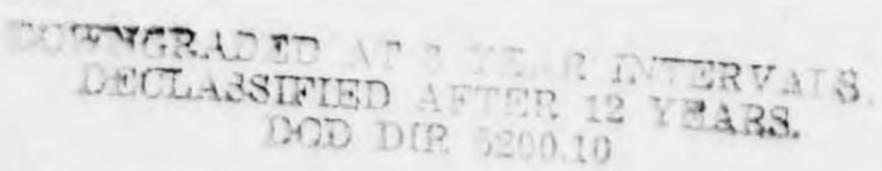
TO:

Los Angeles Procurement Field Office

1206 Santee St

Box J 849, Terminal Annex Los Angeles 54, California ATTN: Mr. William G. Sproull

- 1. This Command is currently engaged in an intelligence investigation of all reported sightings of unidentified aerial phenomena.
- 2. Reference is made to inclosed letter from Land Mariel Command, 13 Aug Variel Ave., Canoga Park, California, to Air Materiel Command, 13 Aug 1948, concerning an object observed in Van Nuys, California.
- 3. It is requested that Mr. Plantable interviewed and that a signed graphic statement be obtained. This statement should indicate the following salient factors: location, date and time of sighting, weather conditions at the time, names, occupations and addresses of witnesses, photographs or sketches, construction, number, shape, size, color, speed, in what part of the sky first observed, direction, manner of disappearance, maneuverability (tactics), altitude, sound, exhaust trail, odor, effect on clouds, diagram of flight pattern (if any), whether luminous or incandescent or if the object(s) appeared to be carrying lights.
 - 4. In connection with this investigation, request that
- a. Local teletype sequence of weather conditions and the Winds Aloft Report at the time of the sighting be obtained.
- b. Local flight schedules of commercial and military aircraft flying in the vicinity at the time be checked.
- Navy, Army, Air Forces, Weather Bureau, Research Organizations, or any other, in the vicinity, be investigated.
- 5. It is requested that personnel be convinced of the necessity of avoiding publicity in relation to this investigation and that it be considered "Confidential".





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AMC

Subject: Project "SIGN"

6. All material will be forwarded directly to Commanding General, Hq, AMC, Wright-Patterson AF Base, Dayton, Ohio, attention: MCI, in accordance with USAF letter dated 26 February 1948.

BY COMMAND OF GENERAL MCNARNEY:

1 Incl:

1. Cy ltr

dtd 13 Aug 48

James J Dansman W. R. CLINGERMAN If C. 418 AF Colonell USAF

Chief, Technical Intelligence

Division

Intelligence Department

Subj: Project "SIGH"
(Basic 1tr dtd 8 Sep 48)

1st Ind.

DOSFOSI/REV: mb

Sub-District 5F OSI, (IG), Western District AF PFO, P. O. Box 3849, Terminal Annex, Los Angeles 54, California, 30 September 1948

TO: Commanding General, Air Materiel Command, Wright-Patterson Air Force Base, Dayton, Ohio. ATTENTION: MCIAKO-3

1. Report of investigation transmitted herewith.

2. Request this office be advised whether further investigation is desired in this case.

Incl:

Cy 1tr dtd 13 Aug 43
withdrawn 30 266
Report dtd 39 Sep 48 (Dupl)
added

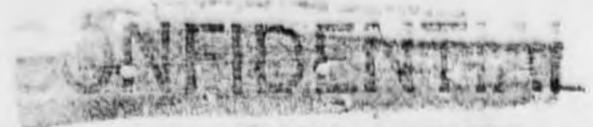
Acting Chief

Acting Chief Sub-District Office 5F

DOWNGRADED AT THEAT INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIE 521010

2 UNGLASSIFIED





HEADQUARTERS UNITED STATES AIR FORCE IN CONTRACT DATE 24-2 30 September 1948 THE INSPECTOR GENERAL REPORT MADE BY OFFICE OF SPECIAL INVESTIGATIONS REPORT OF INVESTIGATION Special Agent WILLIAM G. SPROULL REPORT MADE AT TITLE Office DOSE, Mestern District AF Precurement Field PROJECT "SIGN" UNIDENTIFIED AFRIAL OBJECT 17, 21, 22, 23, 27, 28 September 1948 Offiles OFFICE OF ORIGIN DOST, Western District AF Premirement Field STATUS CLOSED CHARACTER

SPECIAL INQUIRY

REFERENCE

None, this is an initial report

SYNOPSIS

Investigation requested by Commanding General, Air Materiel Command. Aerial object sighted in sky 21 July 1945, was viewed by qualified astronomical observers, through 3", 6" and 12" telescopes at Griffith Observatory, Les Angeles, California, and Meunt Wilson Observatory, Pasadena, California. Aerial object described as a ribbed, pearshaped balleen of latex celer, with bright rectangular disk suspended from lower perties of balleen. Diameter of balleen appreximately twenty-five (25) feet,

ACTION COPY FORWARDED TO FILE STAMP DISTRIBUTION CG, ANG (MCIAIO-3) OSI, Ma. CG, AMC(MOIAZO-3) Tila DOWNGRADED AT S YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
COD DIR 5200.10 APPROVED L. J. TOSTALLASSIFIED Sub-MILLICI COMMANDER

AFCSI FORM 4 23 JULY 1948

WINCLASSIFIED

DETAILS:

- 1. This investigation was requested by the Commanding General, Air Materiel Command, through COLONEL W. R. CLINGERMAN, Chief, Technical Intelligence Division, Intelligence Department, Air Materiel Command, Wright-Patterson Air Porce Base, Dayten, Ohie, per letter dated 3 September 1943, Symbol MCIAIO-3. Letter centained report of sighting unidentified aerial object ever Van Nuys, California, 22 July 1945, by MR. Materiel Avenue, Canega Park, California, and requested attempt be made by this effice to identify the object.
- 2. On 17 September 1948, MR. AFF TR, Pewer Consultant, of S531 Variel Avenue, Canega Park, California, was interviewed regarding sighting of unidentified aerial object on 22 July 1948. MR. Affective referred to the letter of 13 August 1948 which he addressed to Air Materiel Command, Wright-Pattersen Air Force Base, Dayton, Ohio, offering description of object in quastion. His statement was substantially the same. MR. Affect S additional remarks, based on interregation by this agent, is included in a signed statement which is attached to this report as Exhibit I. MR. Affect S impression of the object in question is that the object was spherical in shape and reflected a bluish color luminescence, such as a florescent lamp.
- J. On 17 September 1948, MRS. Proceeding, housewife, Avenue, Canega Park, California, was interviewed regarding sighting of aerial object ever Van Muys, California, on 22 July 1948. MRS. A statement is substantially the same as MR. Access S. A signed statement is attached to this report as Exhibit II. Her impression of the object in question was that object appeared to be spherical in shape, metallic in substance, reflecting the colors of yellow and orange and deeper hues such as purple.

HAS sighted on 22 July 1948. However, during the course of the interregation, it was revealed by both MR. and MRS. However, that it was en a Wednesday evening that the object was observed. The date, therefore, would have correctly been 21 July 1948 that the object was observed instead of 22 July 1948.

4. On 21 September 1948, DR. DR. Belar Observer, Maunt Wilson Observatory, Pasadena, California; home address, hall the interregated concerning his observation of unidentified aerial object which he observed through a 3" and 6" telescope at Mount Wilson Observatory between hours of 1900 and 2030 on 21 July 1948. DR. Handle described the object in question as consisting of a thin translucent outer envelope enclosing a sphere at the tep; the whole of the object having the shape of a pear and beneath the pear-shaped assembly, a square yellow disk was attached by cords. A signed statement was obtained from DR. Bill Destring all pertinent Data and is attached to this report as Exhibit III. DR. Blatter ON stated that the information which was released to the Lee Angelee newspapers in regard to the object in question was released by an assistant at Mount Wilson Observatory. The information released was erroneous and was given on snap judgment. DR. pointed out that he everheard the assistant talking to the newspaperman on the telephone and heard the assistant state to the newsman that the

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DETAILS:

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AGENTS NOTES: ML. and MRS. Movever, during the course of the interregation, it was revealed by both MR. and MRS. Movever, during the course of the interregation, it was revealed by both MR. and MRS. Move that it was on a Wednesday evening that the object was observed. The date, therefore, would have correctly been 21 July 1948 that the object was observed instead of 22 July 1948.

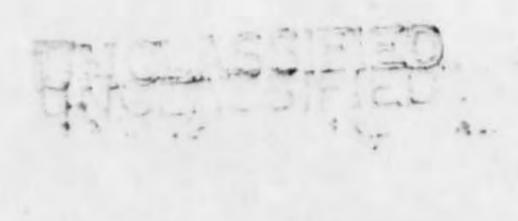
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Incident w163 -- Vanhuys, California -- 21 July 1948

Since a complete description of this incident is given in numerous reports from Lt. wilson Observatory and Briffith Planetarium, since the observations there were made with telescopes by experienced observers, and since their descriptions agree that the object was in all respects balloon-like, there is nothing that this investigator can add. The object was evidently an unidentified balloon.



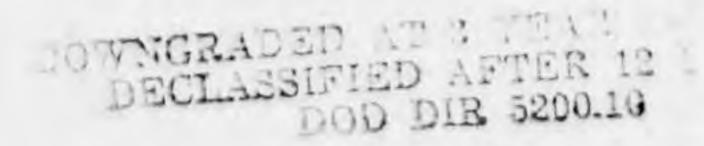
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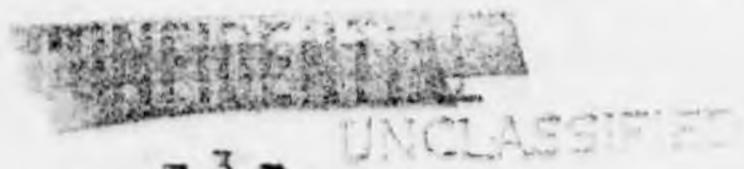
that the edject was a weather balleen and that at that time, he () told the assistant that he should not have made such a statement to the newspapers. Hewever, no attempts were made to change the information given to the newspapers, as there was no proof that the object was not a weather balloon.

- 5. On 22 September 1948, MR. Comment, Wriffith Observatory attache, Les Angeles, California, was interviewed. MR. Mantetated that he was on duty at Griffith Observatory on the evening of 21 July 1948 and that he was handling the telephone switchboard; further that he did not abserve the object in question as reported by the Les Angeles Times newspaper on 22 July 1948. But that instead, he informed the newspaper on the evening of 21 July 1945, when the newspaper called the Griffith Observatory to obtain information regarding the sighting of unidentified serial edject, that the object was a meteorological ballsen. MR. stated that this was the impression he had obtained from various posols at the Observatory, being that the object was a moteorelegical balleen, thms his report to the Les Augeles Times.
- 5. On 23 September 1948, MR. Ballings, Telescope Demonstrator, Briffith Park Observatory; home address, file and Avenue, Les Angeles, California, was interviewed regarding his enservation of merial object sighted on 21 July 1948. MR. All stated that he coserved the object with a 12" refracting telescope and that the object was pear-shaped, appeared to be ribbed vertically, apparently composed of some sert of translucent meterial such as libre glass and suspended from the bedy of the object was a rectangular metallic appearing disk, gold in celer, and suspended from the disk was a length of cord or cable. The object was approximately 20 to 25 feet in diameter. A signed statement was obtained from MR. Demoty this agent, outlining in detail MR. observation of object in question. This statement is attached to this report as Exhibit IV. MR. Dembenitted a reugh exeton of the object in question. This aketch is being enclased to the requester with its copies of this report. MR. Indicated that his impression was that the object in question was not a meteerelegical ballson and that MR. ABBLL wrongly informed the newspapers. MR. and the further stated that the geographic co-ordinates of the Griffith Observatory are as follows:

34 6: 46.8" Merth LATITUDE -LONGITUDE - 118 18 5.5" West BLAVATION - 1140 above see lavel

7. On 28 September 1948, MR. Buperviser of charts, Les Angeles Weather Sursau, Les Angeles Airport, Les Angeles, California, was interviewed regarding repreduction of Winds Aloft Charts and pertinent data for the date 21 July 1945. NR. Wall furnished this agent with the 1300 hours and 1900 hours moteorelegical soundings for the date 21 July 1948, taken by the Les ingeles Weather Bureau. MR. - The was questioned as to his knewledge of appearance and relative data concerning meteorelegical ballsens. Hallsens. stated that there are two types of ballacas currently used by weather stations in computing weather data. These balleens being the Darez balleen and a balleen manufactured by the Air Orniser Corporation. Heither ballson would aptly fit the description of the object described by persons previously interviewed. In the stated that the average meteerelegical balleen was o' a diameter at point of release and that the ballson, men at a 20,000 feet altitude,





would be appreximately 10° to 12° in diameter and at 50,000 to 72,000 foot altitude, would be 13° in diameter and was designed to burst at this point and the instruments which were attached to the sounding device parachute to earth. MR. While checked all files of his effice pertaining to releases of balloons in the greater Les Angeles area, but could find no record of a balloon other than ordinary meteorological balloons being released by any weather station, including Air Force and Mavy installations in the area. MR. The further pointed out that the time of efficial sunset on 21 July 1948 was at 1902 hours and that there would be appreximately twenty to twenty-five minutes of twilight remaining after sunset. Winds Aleft Charts obtained from MR. The Les Angeles newspapers with respect to the object are enclosed to the requester with its copies of this report. Clippings from Les Angeles newspapers with respect to the object are enclosed to the

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Statement made by Mr. Januardower, Power Consultant, Department of Water and Power, Van Nuys, California; home address, Address wenue, Conoga Park, California. 1230 hours, 17 September 1968, concerning object sighted in the sky, 22 July 1968, in the vicinity of San Fernando Valley, California:

"On the evening of 22 July 1318, between the hours of 1930 and 2030, my wife and I were having dinner in the patho of an open air market in Van Muys, California. We arrived there about an hour before dark. Our attention was attracted by other patrons to a strange object in the sky almost directly overhead.

DESCRIPTION: It appeared to be round and probably spherical. At first, it appeared to be a weather balloon at about 2000 feet but there was none of the characteristic bobbing. The wind was blowing on the ground in fair strength and gusty yet the object was quite steady. After wetching it a while, I concluded that whatever it was, was at great height but not a star. It had a bluish luminescence like a fluorescent Tamp and as the sum set the color gradually changed to an orange color at duck and finally enapped off like a lamp when you throw the switch (at which moment I was looking right at it). In about an hour that I had been observing it, the object had traveled through a vertical arc of about 25 degrees or more. The outline of the object was clear and sharp and symetrical (no functions or bluring); the air was very clear with visibility unlimited; ground temperature about 70-75 degrees dropping to about 00 degrees an hour after dark (two hour time lapse); direction of travel was from East directly toward the sun.

ADDITIONAL INTERPO WATTON BY SPECIAL AGENT WILLIAM G. SPECULL

- UR. SPEDULL: Can you approximate the geographical location when you first sighted the object?
- MR. Directly over Van Muys, about-25-or 30 degrees it travelled.
- MR. SPROULL: Approximately what was the time when you first signted this object?
- IR didn't know the exact hour, but it was about an hour be-
- 12. SPROULL: Who called your attention to the object?
- IR . Unidentified member of a group at the matte.
- IR. SFROULL: What was the weather condition at the time?
- MR. West clear sky. Visibility unlimite.
- DR. SPECULL: What was your impression of the actual chars or dimension of the

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I.R. SPROULL: What was the approximate size of the object?

IR. The size, as near as I could judge, would be a neather balloon at 2,000 feet. I am POSITIVE it was not a weather balloon.

MR. SPROULL: What would you approximate as the speed?

That I wouldn't know except that it travelled about 25 or 30 degrees at approximately forty-five minutes to an hour.

MR. SPROULL: In what direction did it move?

LR Overhead directly into the sun.

IR. SPROULL: Did you think it might be a reflection from anything?

MR. I thought it might be a reflection from the sunlight at first but them I couldn't account for the blue tinge.

MR. SPROULL: Did it glint or sparkle?

No, it didn't sparkle at all. The light from the object was constant with a constant intensity but changed as the sun set lower until it turned toward an orange color. As the sun was setting, it became yellow and after the sun completely dropped, it became orange color. I was just observing this particular change of coloring, when it disappeared completely.

MR. SPROULL: What was the manner of livappearance?

It disappeared like the turning off of which. I was looking directly at it, when it seemed to disappear as an incandescent light when one turns off the switch. There was no expansion and no change in dimension whatsoever. That is the last I saw of the object.

LR. SPROUIL: Any tactics employed during flight of objects

MR. No compage in altitude or direction.

MR. SPROULL: Was there any sound to this object?

LR. Clare was no sound whatsdever,

MR. SPROULL: Was there an exhaust trail?

TT. No sklaust trail at all.

IR. SPROULL: Did you notice the object-as carrying any lights?

There were no distinguishing characteristics at all except for the bluish light.

its. Semonia: Did this comments on to be entering to the file and the

man I tirst viewed the object, the flying semerts intediately came to my mind.

DOWNGRADED AT 3 YEAR INTERVALS: DECLASSIFIED AFTER 12 YEARS. DOD DIE 5200.10 MR. SPROUILE Do you feel that you were observing a definite object?

Yes, it had a definite sharp outline - something I had never seen before. At first I thought it might be a gaseous formation but it didn't have the characteristics of a meteor or comet and the outline was too definite and sharp to be gaseous. It instead appeared to be a definite material object. I had even considered that it might be an astronomical object caught in our Earth's rotation like the moon, but it travelled faster than the sun so it couldn't have been. It was travelling three times as fast as the sun and was going in the same direction as the sun.

MR. SPROULL: Do you know any of the persons who observed this object personally?

MR. No.

EID OF STATESENT

HEMRY GLOVER 8531 Variel Avenue Conoga, California

STATIMENT

Statement made by Mrs. Henry Montage Scale of Language Bonoga Park, California. 1215 Hours, 17 September 1948, regarding bject sighted in the sky, 22 July 1948, in the vicinity of San Fernando Valley, California.

"On the evening of 22 July 1940, at Valley Market Town, while in the company of my husband, Mr. Here liver, we were having dinner in the patio when my attention was called by my husband to an object in the sky. This was approximately between the hours of 1930 and 2000, before dark. Upon gaz ing straight upward, the object seemed to be round and luminous. It appeared to be metallic changing to yellow-orange and to deeper hues, toward he blue, as darkness came. It seemed to be at a very great distance. In comparing the size, it would be as if I were looking at a platter accross a room at approximately twenty feet distance. There were no seeming gaseous elements, no rays or sound as far as I can remember. It seemed absolutely round. At the time, the sky was cloudless. There was no other object or air craft in the sky. In fact, it was the only object in the sky. Over a period of thirty mimites or more, the object moved from straight upward to a westerly direction. I should say that it travelled approximately twenty or thirty miles. This object moved in a steady gliding motion. There was no exchaust trail or vapors from this object. The color of this object changed gradually seeming to reflect the atmospheric conditions of nightfall. When next my attention was drawn to it, I no longer saw it. My attention was drawn to it, as stated above, by my husband who was standing with a group of eight or ten people tho were also gazing at the object. The object was entirely different from anything I had ever seen. It did not appear to be a balloon or any advertizing device. It was a definite material object,"

DID OF STATEMENT.

Conoga, California

Thibit II

Pasadena 4, California

Pasadena 6

- 1. Location first sighted. The object was first seen at the Monastery of the Mount Wilson Observatory. The "Monastery" is the name applied to the place where the astronomers live while working on Mount Wilson. It is within a few yards of a mark at 34 12' 55" N, 7 hours 52 minutes 14.3 seconds West, at an altitude above sea level of 5494 feet.
- 2. Date and Time of Sighting. About 7:00 PM, Pacific Daylight Saving Time, of July 21, 1948
- 4. Fersons The might have known of the Chiest on Tried to.

 Photograph it. I know of no others who actually saw the object or who tried to photograph it.

Cochelet III

5. Construction, size, shape, etc. As and I viewed the object through a six-inch telescope on the mountain top about ten minutes after it was first sighted below at the consstery.

At the longstery it was viewed through a portable three-inch telescope. Dr. School below at the we were observing at the six-inch.

The nature of the object was immediately apparent through the six-inch, which enabled us to see it as if only a few yards away. It consisted of a thin translucent outer envelope enclosing a sphere at the top, the whole having the shape of a pear. Beneath this pear-shaped assembly a square yellow disk was attached by cords. I am sure of these facts.

I believe also that the thin outer envelope had a diamond shaped pattern as if criss-crossed by a network of cords. Also that the cords attached to the yellow disk extended beyond it.

As the object was unfamiliar to us and there was nothing nearby with which to compare it, we could not make an accurate estimate of its size. After thinking it over, however, I think we can get a good idea of its size as follows: I would estimate that the object appeared about 1/5 the diameter of the full moon or subtended an angle of 6'. Today (September 22) I called Mr. Nausnock and asked him how big he thought the object was.

Ithoug prompting from me he made an estimate of 1/8 the full moon, which is in good agreement.

Now an object 10,000 feet away that subtends an angle of 6' of arc has a diameter of 17.4 feet. If 20,000 feet away its diameter would be 34.8 feet; if distant 30,000 feet its diameter would be 52.2 feet, and so on. From the general appearance of the object I should say a diameter of about 25 feet would seem reasonable.

- 6. Color change. The outer envelope resembled a thin white membrane. The square disk below was distinctly yellow without marking. We observed no change in color.
- 7. Speed. hen the object was first sighted at 7:00 P.M. it was slightly south of the bonastery and high overhead, probably over fierra badre. Then last seen about 8:30 PM, POST, it was far to the west probably near the coast about 30 miles away. This would mean that it had moved 30 miles in 1.5 hours making its speed 20 miles per hour nearly straight west.
- 8. Part of Sky First Observed. I would estimate that it was directly south of the Monastery at an altitude of approx. 80.
- 9. Direction of Travel. Wearly straight west as seen from Lount ilson.
- 10. Egimer in which Last sen. he object was last seen about 8:30 PM, PDST, through the 3-inch tolescope at the onastery by Mm. and last. Thereack and correls, havings sphere 12

background of the sky. After sunset the object the spreared like a brilliant white ster in the evening sky, such brighter than the planet Venus. It was very constituous owing to the fact that it was still illuminate by the sun's ways while the valley below was in shadow.

- 11. Maneuverability if any. During the time we observed the object it moved steadily westward without any sudden change in direction.
- 12. Approximate Altitude. At least 10,000 feet above bount ilson which would make its altitude above sea level 15,000 feet. I told the reporter who called me from the L.A. Times that it as only about 2000 feet overhead but later realized that this was much too lov.
- 13. Sound if any. No sound.
- 14. The Trails. No exhaust trails detected. They should have been readily visible through the six-inch telescope.
- . 15. Odor. None.
 - The sky was exceptionally clear around the object all during our observations.
 - 17. Thight Factors. Cheadily resigned as teams.

Dr HYNEK'S EVALUATIONS EXTRACTED FROM PROJECT GRUDGE REPORT.

INCIDENT INDEX

1. Astronomical

- a. Eigh probability:

 \$\pmu 26, 27, 30, 31, 32, 33, 34, 48, 49, 59, 60, 66, 69, 70, 94,

 95, 96, 97, 98, 101, 102, 103, 104, 116, 119, 132, 136, 140,

 147, 148, 158, 174, 184, 185, 187, 197, 203, 204, 208, 216,

 219, 238.
- b. Fair or low probability:
 #19, 20, 23, 24, 28, 35, 35, 46, 50, 63, 67, 86, 82, 93, 100,
 112, 120, 121, 129, 130, 144, 153, 165, 166, 167, 175, 192,
 199, 202, 205, 220, 230, 240.

2. Non-astronomical but suggestive of other explanations

- a, Balloons or ordinary aircraft: #3, 11, 22, 41, 42, 53, 54, 73, 81, 83, 91, 92, 113, 114, 115, 126, 131, 138, 141, 145, 155, 156, 157, 159, 160, 161, 163, 169, 171, 173, 178, 180, 182, 188, 190, 194, 195, 196, 198, 200, 201, 209, 210, 217, 222, 235, 237, 239.
- b. Rookets, flares or falling bodies: #4, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 25, 56, 65, 78, 106, 107, 108, 109, 133, 170, 211, 218.
- o. Miscellaneous (reflections, auroral streamers, birds, etc.): #39, 89, 123, 124, 128, 146, 164, 181, 189, 214, 221, 231, 234.

3. Mon-astronomical, with no explanation evident

- #38, 44, 45, 47, 55, 57, 72, 86, 87, 88, 90, 99, 110, 117, 118, 125, 127, 137, 139, 149, 150, 177, 179, 191, 206, 212, 213, 229, 232, 233.
- b. Evidence offered suggests no explanation:

 \$\frac{1}{2}\$, 2, 10, 17, 21, 29, 37, 40, 51, 52, 58, 61, 62, 64, 68, 71, 75, 76, 77, 79, 84, 105, 111, 122, 135, 151, 152, 154, 162, 168, 172, 176, 183, 185, 193, 207, 215, 223, 224, 225, 226, 227, 236, 241, 242, 243, 244, 134.

18. <u>Iuminous or Incandescence or Lights of any kind</u>. None,

Remarks

About 4:30 PM, I answered a call rom the L.A. Times saying that they had received a report of a bright scot over the vicinity of Big Bear Lake. At the Observatory we supposed that this was merely another flying disk rumor and thought nothing of it. But when this remarkable bright object as seen sailing overhead after dinner we became greatly interested and excited. Someone got out the three-inch telescope and after taking a look exclaimed, "It's a balloon!"

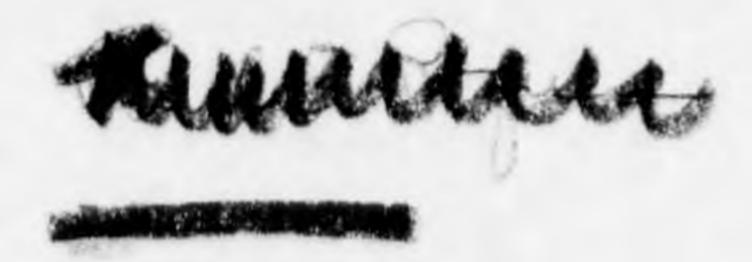
We naturally speculated about the object a good deal that evening and survised that it was probably a meteorological belloon of some kind. About half a dozen unidentified meanle called inquiring if we had seen the bright disk. I heard musnock tell someone that it was a meteorological belloon, but I cautioned him that we didn't know anything of the kind. Then the L.A. Times telephoned a second time I described the object essentially as I have here, but emphasized that its nature was unknown to us. I mussed its altitude was 2000 feet but later realized it must have been much higher.

After returning to the office in assadena I sent Ir. susnock a copy of Forular Science Lonthly for way or June, 1948, which had a nicture on the cover of a new type of settle colorical balloon. I enclosed a note caving her this was that the suites as had sen over wount ilson.

STATEMBNT

Observatory, P. A. Company Les Peliz Station, Les Angeles, California; home address, 5030-Resident Mark Les Angeles 43, California. Statement taken by Special Agent William G. Spreull, 23 September 1948.

The edject in question was first neted by myself at approximately 6:30 P.M. Pacific Daylight Time, 21 July 1948, while I was leaving the Rest Telescape Deme, Griffith's Observatory. It had an altitude of about 60 degrees and an asimuth, from the south point, of about 225 degrees as nearly as I could tell. When I last observed the object & about 8:30 P. A. Pacific Daylight Time, the altitude, I would judge, was about 40 degrees and the azimuth about 100 degrees. The object was moving in a Westerly direction. As soon with the newed eys, the object appeared as a bright round dise with a very slow Westward metion. I first observed the object with a 12" refracting telescove when the object was at about 60 degrees, asimuth 140 degrees. The balloon or main bedy of the object was an excellent reflector of sunlight and appearently it was composed of seme sert of translacent material such as fibre glass or the like. Suspended from the ballson was a rectangular metallis appearing disc appearing to be gold in color, and hanging from the disc was a length of cord or cable the length of which I sould not determine. The edject appeared to have ribs running vertically down the side of the main bedy. Upon further close examination through the 12" telescope, the edject appeared to have a shape similar to a pear with the smallest pertion hanging towards the bestom. I soserved no lights nor any construction on the object such as wings or anything restmbling a power plant of any sert. The object was magnified 125 times through the telescope. I would judge the altitude of the object to be at approximately 20,000 feet. The abject centimued to reflect sunlight even after the sun set because of its altitude. Then sheerving the object, it was at times so brilliant that it was hard to continue looking through the telescape at it. I presume this was due to the reflection of the sunlight, off of the object on to the telescope. During the course the object traversed. it maintained a steady rate of metion and did not appear to be bobbing or maneuvering in any way. Occasionally the object appeared to swing and the rectangular metallic disc would present itself as a knife edge, indicating that the disc was flat with no thickness. I lest sight of the object at about 3:30 P.A. after dark which indicates to me that the edject was not generating its own light. I do not know of anyone who photographed or made drawings of the object or personally observed it. I observed no exhaust trails, heard no sound, nor detected any eders with relation to the object.

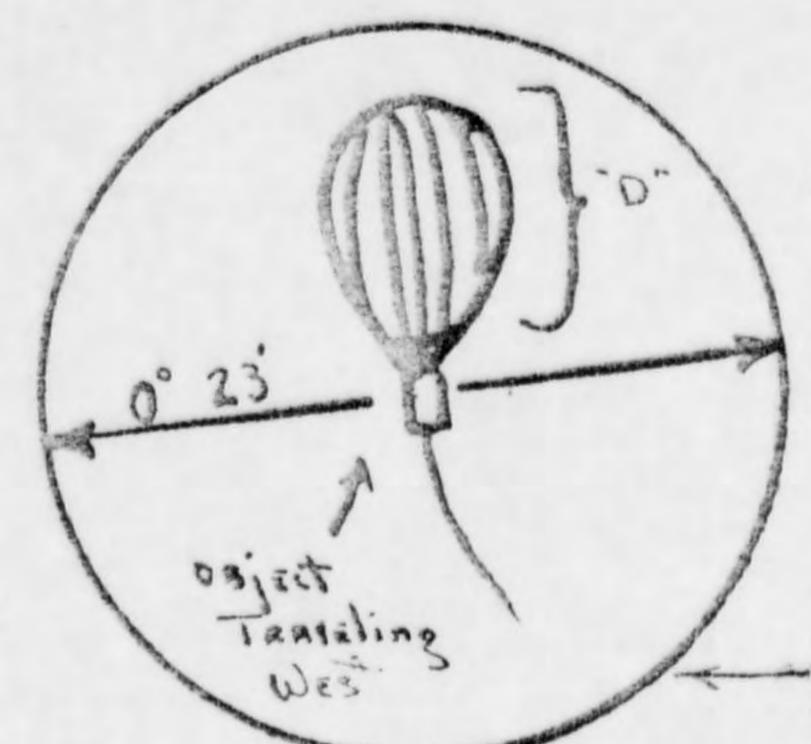


Thelet II



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APPROXIMATE SIZE
OF OBJECT AS IT
APPEARED IN THE
TELESCOPE



THE LENGTH "D" IS
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ABOUT 0.23 THE SIZE

OF THE FULL MOSS

of The Telescope

REPRODUCED By S.W.T.

DOWNGRADED AT 3 YEAR INTERVALS DECLASSIFIED AFTER 12 YEARS. DOO DIR 5200.19

UNCLASSIFIED



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AMC Form Ne. 10-3 (Roy 29 Jul 47)

ROUTING AND RE

Use this form for inter-office correspondence within headquarters.

Number all comments consecutively.

Use entire width of sheet, both sides.

Use authorized office symbols to designate addressor and addressee.

SHEET

Note warning signal at lower left of form. Remaining space is sufficient only for proper spacing of typewritten signature. AR MATERIEL COMMAND

Place initials of dictator and typist, telephone number and location to right of signature.

Separate comments by horizontal lines across page.

SUBJECT Project "SIGN" Incident No. 163

TO MCIAKO

FROM

MCIAXO-3

DATE 9 MOV 48

COMMENT NO. 7

Attn: Capt Harpster

- 1. Pursuant to authority contained in paragraph four (4) Technical Instructions 2185, Addendum No. 3, this Command, dated 11 February 1948, this Project has been authorized the assistance of all divisions and activities under the jurisdiction of the Air Materiel Command.
- Your cooperation is requested in interpreting and analyzing the attached evidence from the viewpoint of the Electronics Sub-Division to enable possible identification of the object reported in our Incident No. 163.
- 3. The possibility that identification of the unidentified object may fall into purview of a domestic project, too highly classified to permit release at this date, is realized. However, it would be appreciated if advice were given to discontinue further investigation in this specific case, should this matter fall into that category.
- 4. Attention is invited to drawing on page 6, Exhibit "C" and to attached reproduction of "Popular Science Monthly", Exhibit "G" which shows a new type of meteorological balloon. See item 18, page 5, of statement submitted by Robert S. Richardson of the Mt. Wilson Observatory Exhibit "C", and Exhibits "H" and "H2".
- 5. A similar request to this is also being made to the Air Weather Liaison Officer, this Command. Should circumstances so indicate, it is requested that coordination be effected with Colonel Neal, MCLAWS, telephone No. 5-8234 for preparation of comments and return to MCIAKO-3, ATTN: Capt. Sneider.

8 Incls Exhibits "A" thru "H"

C. A. GRIFFITH

Chief, Operations Section

Tech Intelligence Division

Intelligence Department

RRS/ej 65310

> P 202F B 288

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22 Nov 43

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L. The surject of the Lipicent and statements at Moned on I indicate that the object of the Le new Meteorological ballom used by Dr. John Peoples and Ten York University in their Lalloon Essearch Project.

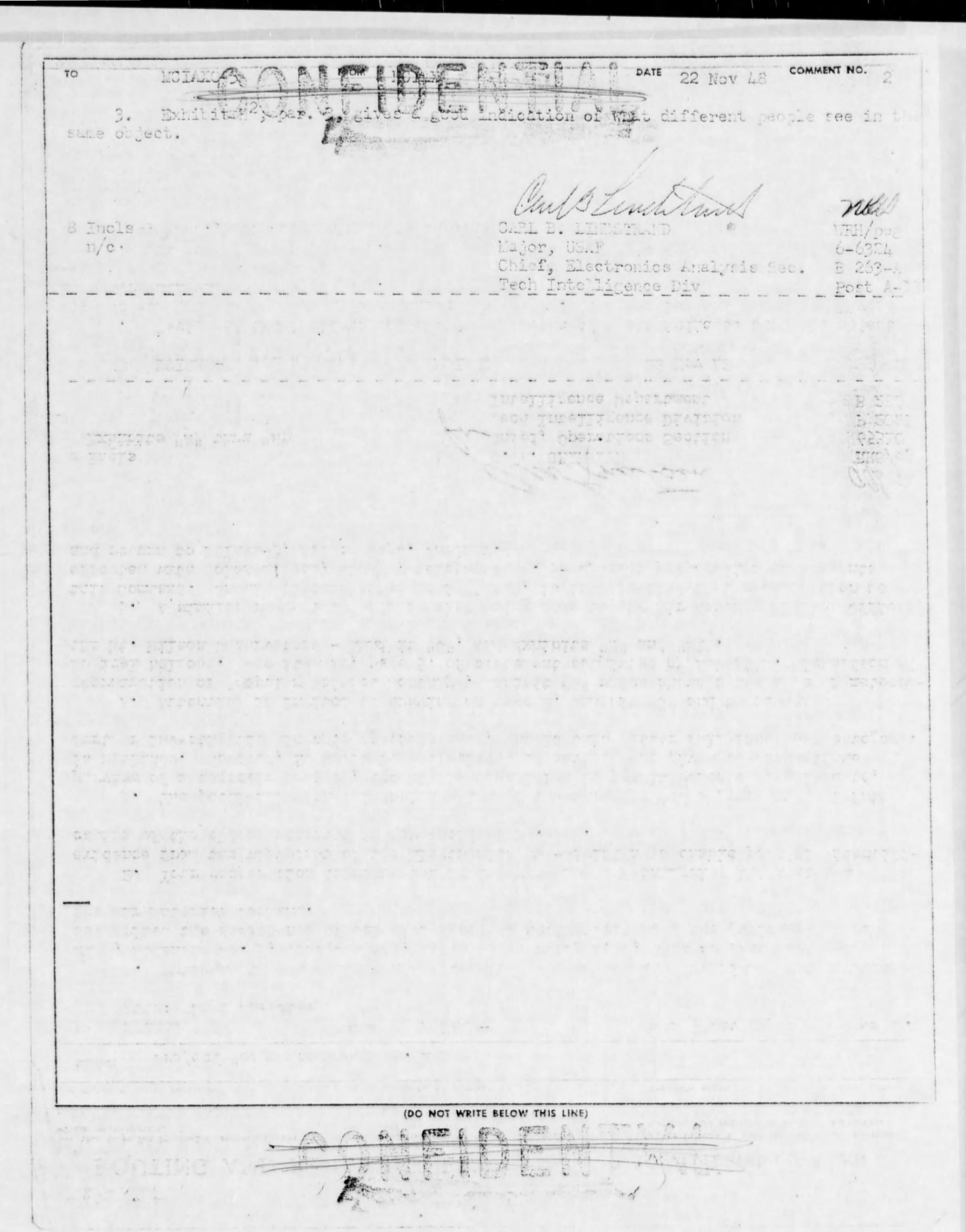
I. It is antiset that Dr. Pareles be contacted at the forces distributed in article, a bridge, last, for data on release time, data, and place.

DOO DIR 5200.10

ALANA LILL C



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Project "SICN"

MCIATO-3

TO FOY 43

1.

APTH: Col Neal

ir Teather Limison Officer

- 1. Pursuant to authority contained in paragraph four (4) Technical Instructions 2185, Addendum No. 3, this Command, dated Il February 1948, this office has been much orized the assistance of all divisions and activities under the jurisdiction of the Air Materiel Command to permit the successful conduct of this project, and is also authorized direct communication with all Army installations by Department of the Army letter dated 25 March 1948, subject, "Unconventional Aircraft".
- 2. Your cooperation in conjunction with that of the dr sether service is therefore requested for the purpose of interpreting and analyzing the evidence appended hereto, in order to provide certain conclusions which may prove or disprove a domestic origin
 for the anomaly herein described.
- 3. From the evidence submitted, does the configuration correspond to known domestic meteorological devices now in use?
- 4. Attention is invited to drawing, page 5, Exhibit "C", to attached reproduction from "Popular Science Monthly", Exhibit "C", which shows a new type of meteorological balloon, and to news items, Exhibits "H" and "H2". See item 18, page 5, of statement submitted by Robert S. Richardson of the Mt. Hilson Ubservatory (Exhibit "C"). Tour comments and any action indicated will be appreciated.
- 5. Do the attached meather charts (Exhibit "F") fix a possible or probable point of release if object is identified as a domestic release?
- 6. A map chart of the probable course taken as influenced by the winds aloft data would be of use particularly in relation to possible points of meteorological balloon releases outside the greater los Angeles Area within the critical periods of time. See paragraph four (A) page 2 of "DETAILS" Exhibit "E", as listed by Special Agent Wm G. Sproull, wherein he states that a Mr. Harvey checked all files pertaining to balloon releases in the greater los Angeles area.
- 7. It is requested that a report be submitted directly to MINIC-3, ATTM: Captain Oneider.

DOWNGRADED AT 3 YEAR INTERVALS: DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

B Incls Exhibits "A" thru "H2"

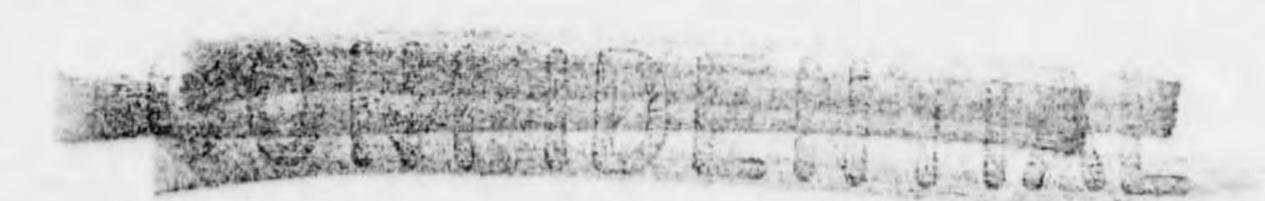
Colonel, USAF

65310

TRICLASSIFIED

Chief, Tech Intelligence Lvision Intelligence epartment

3 DES



The following article taken from "DAILY NEWS" Los Angeles, Calif Thursday, July 22, 1948.

Silver Sphere Deflated as Sky Mystery

flying disks all over again . . .

The queries started yesterday afternoon among Big Bear Valley residents.

thing following the sun?" they wanted to know.

curiosity cudgels, belaboring po-Lice, Sheriff's and newspaper switchboards by the hundreds switchboards.

As afternoon wore into evening, the silver sphere was tracked by thousands of neckcraning Southlanders while it moved slowly in a northwesterly direction.

Astral Visitor Identified

At Mt. Wilson Dr. Robert S.

Richardson, solar observer, reported that he had scanned the
object as it passed nearly overhead on its leisurely course seaward. George Abell, Griffith Observatory attache, also reported
following the sphere by telescope.

the Weather Bureau forecast center at Los Angeles Airport:

A meteorological balloon.

The balloons are supposed to the balloons are supposed to the burst at high elevations after autentionatically broadcasting weather with the balloon during their ascent.

This one apparently developed the balloon as slow leak and sank back to the balloon during the balloon.

ward earth, weathermen said.

A general warning of the ball

Colon's hovering over Los Anderse describing it as a hazard.

The following article taken from the "LOS ANGELES TIMES" Thursday Morning, July 22, 1948

WM stirs ghosts of the flying discs

Memories of the flying disc phenomenon were revived last night as 1500 persons swamped police and fire department switchboards with telephone calls reporting a mysterious silver object soaring over Los Angeles.

With the experience of that frenzied time a year ago behind them, the police calmly checked around until they got word from the Mount Wilson Observatory that the mysterious silver object was a weather balloon.

The reports reaching police from citizens described the balloon ast scaring, dipping, standing still, shooting across the sky, and moving north, east, south and west,

Mt. Wilson informed the police the balloon was drifting slowly with the wind in a westerly direction and had evidently been released in the vicinity of Big Bear Lake.

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HEADQUARTERS AIR MATERIEL COMMAND Wright-Patterson Air Force Base Dayton, Ohio

MCIAKO-3/MMS/ra Jan 5 1949

MCIAKO

..

SUBJECT: Project "SIGN"

TO: Chief, Air Weather Service,
Andrews Air Force Base,
Washington 25, D. C.
ATTN: DSS

- 1. Project "SIGN" is responsible for the collection, investigation and interpretation of data relative to sighting of unidentified
 flying objects. Attached Incident Summaries 1 thru 172 from the files
 of Project "SIGN" are forwarded for study and recommendations as to
 which of the incidents may be eliminated as balloons released on routine
 synoptic ascents by the Air Weather Service, the Navy Aerological
 Mervice or the United States Weather Bureau. The summaries attached
 may be retained in your headquarters for working and reference purposes.
- 2. The Air Weather Service is the only agency of its type that has been asked to assist in the accomplishment of Project "SIGN" except that the United States Weather Bureau has provided information on ball lightning. Research projects in which balloons are used and which are conducted or aponsored by the Army, Navy or United States Air Force are shocked by the Intelligence Department of this Command. These checks are usually made direct from the Project "SIGN" Office, MCIAKO-3. These shocks are distinct from the check of synoptic balloon flights made by weather service stations of the Air Force, the Navy and the Department of Commerce. (U. S. Weather Bureau) requested of Air Weather Service.
- 3. It is the opinion of this office, that the below listed incidents are those having the greatest possibility of being balloons. This list does not eliminate the possibility that many of the remaining incidents are balloons.

2 .	24	50	91	113	155
3	25	52	92	115	156
1	23	72	96	126	157
21	30	73	104	243	359
14	31	Bl	1.05	345	165
16	. 32	57	107,8,9	151	167
22	33	89	112(See122)	154	169
23	eli3				

F-Shipsi-A

Eq ALC, Chief, Air Weather Service, Washington 25, D. C. Bubjs Project "SIGN"

inclosed as a matter of interest. Comment as to possible improvement of the "Essential Elements of Information" in regard to routine symptic balloon flights is invited.

5. It is requested that correspondence be forwarded to the Commanding General, Headquarters, Air Materiel Command, attention MCIAXO-3.

FOR THE COMMANDING GENERAL:

2 Incls: Summaries 1-172 incl /s/ W. R. Clingerman, Col; USAF for H. M. McCOY Colonel, USAF Chief, Intelligence Dept

Copies furnished;

AFOIR, Hq. UBAF Capt Trakowski, Geophysics Lab Major Kodis, MCREEP Colonel Neal, MCLANS

APPEIDIX P

3(10th Glechrories Station Analysis of Project Or dgs Reports

ACT/B3

April 18, 1949

AIR MATERIEL COMMAND 3160 Electronics Station Cambridge Field Station 230 Albany Street Cambridge 39, Mass.

In reply address both communication and envelope to the Commanding Officer and attention of following office symbol. ERH

SUBJECT: Analysis of Project "Grudge" Reported Incidents

TO: Commanding General
Air Material Command
Wright-Patterson Air Force Base
Dayton, Ohio
ATTN: MCIAXO

- 1. Reference is made to the letters from your Headquarters to this station of 22 November 1948, 6 December 1948, and 14 January 1949, Subjects: "Project 'Sign'", requesting that reported incidents 1 through 172 be analyzed to determine whether or not these might have been caused by balloons launched by these laboratories.
- 2. A listing has been compiled of all balloons launched by these laboratories and its contractors for special atmospheric research purposes, from the first such launching to No. 101 on 17 November 1945. Each of these launchings has been compared with the reported incidents 1 through 172. Factors of comparison were date of launching and date of recovery with respect to date of reported incidents; place of launching and place of recovery with respect to the place of reported incidents, and possible deviations from the known flight path with respect to the place of reported incidents. So that your office may make an independent analysis, three copies of the launching list are inclosed.
- a. Incidents No. 5 through No. 16 reported on 4 July 1947 throughout Oregon, Idaho and Washington gave, in general, descriptions of clusters or groups of objects. The 3 July 1947 balloon launching No. 8 at Alamogordo was a cluster of balloons and was not recovered, and so might be suspected of being the cause of these reports. However, although not recovered, this flight was terminated in the New Mexico Tularosa Valley only a few miles northwest of Alamogordo. That the balloons were downed was determined both by airplane spotting and by radio direction finding upon the balloon telemetering instruments. Recovery of the balloons and instruments was prevented by the impassability of the terrain.
- with respect to date with incident No. 1 through No. 4, and again with incident No. 1 through No. 4, and again

Ltr, ERH, to CG, AMC, Subj: Analysis of Proj. "Grudge" Reported Incidents

The description of incident No. 40 is inconsistent with the appearance of balloon flight No. 11. Also, in consideration of the prevailing upper winds, it is very unlikely that the balloons would have gone more than a few miles westward of Alamogordo, although it must be admitted that a long flight west of the launching point could not be ruled out as impossible.

- a. Incident No. 17 compares somewhat in time with balloon launching No. 10 of 5 July 1947. However, balloon No. 10 although not recovered was known to have been downed northeast of Albuquerque, New Mexico. It was not recovered due to impassability of terrain. Incident No. 113 is a reasonable description of the 20 ft. plastic balloon and instruments used by these laboratories. This incident was on the date of balloon release No. 46 of 9 April 1948 at Alamogordo. However, the time of the reported incident (1506 CST) is about 1/2 hour before the time of balloon release (1432 MST), thus the incident could not have been that balloon.
- d. It is of interest to note that incident No. 122 was reported by an employee of these Laboratories who had considerable experience in the use of balloons of all kinds, and could have been depended upon to know the appearance and behavior of a balloon if it was this he saw.
- e. Incident No. 163 bears a fair description of the appearance of a large plastic balloon in sunset light. The object's disappearance could be accounted for either by its movement into the earth's sunset shadow or by natural defocusing of the observer's eyes. This incident could possibly have been balloon release No. 75 or No. 76 or 20 and 21 July 48 from Alamogordo. Bulloon No. 75 was recovered at Hollister, California, which is in the Monterey Bay area, on 22 July 1948 and could have easily had a trajectory which would have been within sight of the Los Angeles area. Balloon No. 76 was never recovered. It is possible that it had a trajectory similar to No. 75.
- f. All other reported incidents from 1 to 172 do not seem to have reasonable comparison with balloons launched by these Laboratories.
- 3. The balloons used by these Laboratories are now somewhat standardized. They are 20 feet long, plastic, white in color, and hem sphere-on-cone in shape. Nearly all launchings are made at the Holloman AFB at Alamogordo, New Mexico. Two photograph prints are inclosed showing the appearance and size of these balloons. The larger photograph shows the typical flight appearance at any altitudes where it would be visible. It is hoped that this information may be of some use to you in identifying future reports of incidents.